

Notice of Allowability

Application No.

10/055,258

Examiner

Truc T. Chuong

Applicant(s)

BARBER ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/23/06.
2. ☒ The allowed claim(s) is/are 1-14.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

BA HUYNH
PRIMARY EXAMINER

DETAILED ACTION

1. Applicants' Attorney, Mr. Joseph N. Ziebert and Examiner discussed and agreed to amend claims 1, 5-6, 8, and 10-11 of the existing claims 1-14 in the phone interview on Friday, November 9 and 13, 2006; and the Applicant gives the Examiner permission to correct the issue on Examiner's Amendment. The Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. The application has been amended as follows:

1. (Currently Amended) A method of selecting, displaying, and reconfiguring display configurations on an avionics display in an avionics system on an aircraft for different phases of flight of the aircraft comprising the steps of:

selecting a prestored climb display configuration for display on the avionics display with a climb quick access pushbutton on a cursor control panel when the aircraft is in a climb phase of flight;

reconfiguring the prestored climb display configuration into a new climb display configuration with controls on the cursor control panel and on the avionics display;

pressing and holding the climb quick access pushbutton for a period of time to store the new climb display configuration;

selecting a prestored cruise display configuration for display on the avionics display with a cruise quick access pushbutton on the cursor control panel when the aircraft changes to a cruise phase of flight; and

selecting a prestored descend display configuration for display on the avionics display with a descend quick access pushbutton on the cursor control panel when the aircraft changes to a descend phase of flight.

2. (Original) The method of claim 1 further comprising the steps of:

reconfiguring the prestored cruise display configuration into a new cruise display configuration with controls on the cursor control panel and the avionics display; and

pressing the cruise quick access pushbutton for a period of time to store the new cruise display configuration.

3. (Original) The method of claim 1 further comprising the steps of:

reconfiguring the prestored descend display configuration into a new descend display configuration with controls on the cursor control panel and the avionics display; and

pressing the descend quick access pushbutton for a period of time to store the new descend display configuration.

4. (Original) The method of claim 1 further comprising the steps of selecting the new climb display configuration on the avionics display with the climb quick access pushbutton on the cursor control panel.

5. (Currently Amended) A method of selecting, displaying, and reconfiguring display configurations on an avionics display in an avionics system on an aircraft for different phases of flight of the aircraft comprising the steps of:

selecting prestored display configurations for display on the avionics display with quick access pushbuttons on a cursor control panel in accordance with the aircraft phase of flight;

reconfiguring the prestored display configurations into new display configurations with controls on the cursor control panel and the avionics display; [and]

pressing and holding quick access pushbuttons for a period of time to store the new display configurations, wherein the quick access pushbuttons include a climb quick access pushbutton, a cruise quick access pushbutton, and a descend quick access pushbutton to store a respective new prestored climb display configuration, cruise display configuration and descend display configuration by pressing and holding the respective quick access button for the period of time;

selecting the prestored cruise display configuration for display on the avionics display with a cruise quick access pushbutton on the cursor control panel when the aircraft changes to a cruise phase of flight; and

selecting the prestored descend display configuration for display on the avionics display with a descend quick access pushbutton on the cursor control panel when the aircraft changes to a descend phase of flight.

6. (Currently Amended) The method of claim 5 for selecting, displaying, and reconfiguring avionics display configurations in an avionics system wherein the step of selecting

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prestored display configurations on the avionics display with the quick access pushbuttons further comprising the steps of:

selecting [a] the prestored climb display configuration for display on the avionics display with [a] the climb quick access pushbutton on the cursor control panel when the aircraft is in a climb phase of flight[;]

~~selecting a prestored cruise display configuration for display on the avionics display with a cruise quick access pushbutton on the cursor control panel when the aircraft changes to a cruise phase of flight; and~~

~~selecting a prestored descend display configuration for display on the avionics display with a descend quick access pushbutton on the cursor control panel when the aircraft changes to a descend phase of flight.~~

7. (Original) The method of claim 6 wherein each of the steps of selecting the climb phase of flight configuration, the cruise phase of flight configuration, and descend phase of flight configuration comprises selecting a middle window display configuration from the group consisting of a checklist index, a flight management system text, and a vertical terrain profile and selecting a lower window display configuration from the group consisting of a present position, plan, datalink, charts, traffic, and maintenance formats.

8. (Currently Amended) An avionics system having displays with display configurations pilot-selected for a phase of flight of an aircraft and reconfigurable for each phase of flight comprising:

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a flight display for storing and displaying stored phase of flight display configurations for each phase of flight of the aircraft; and

a cursor control panel connected to the flight display for changing from one stored phase of flight display configuration to another stored phase of flight display configuration when selected by the pilot for a phase of flight and for reconfiguring the display configuration for each phase of flight, wherein the panel includes quick access pushbuttons including a climb quick access pushbutton to store a new prestored climb display configuration by pressing and holding the climb quick access pushbutton for a period of time, wherein the quick access pushbuttons include a cruise quick access pushbutton, and a descend quick access pushbutton, wherein a prestored cruise display configuration can be selected for display with the cruise quick access pushbutton when the aircraft changes to a cruise phase of flight, and a prestored descend display configuration can be selected for display with the descend quick access pushbutton when the aircraft changes to a descend phase of flight.

9. (Original) The avionics system of claim 8 wherein the flight display further comprises:

a middle window for displaying a pilot-selectable display configuration;
a lower window for displaying a pilot-selectable display configuration; and
line select keys for selecting the middle window and lower window display configuration.

10. (Currently Amended) The avionics system of claim 9 wherein the ~~cursor control panel further comprises phase of flight~~ quick access pushbuttons are flight phase pushbuttons for selecting a stored phase of flight configuration and for reconfiguring a stored phase of flight configuration into a new phase of flight configuration by selecting the new configuration with controls on the cursor control panel and pressing and holding a phase of flight one of the quick access ~~pushbutton~~ pushbuttons for a predetermined time to store the new configuration.

11. (Currently Amended) The avionics system of claim 10 wherein the cursor control panel further comprises:

[a] the climb quick access pushbutton for selecting a climb phase of flight display configuration and for reconfiguring the climb phase of flight display configuration;

[a] the cruise quick access pushbutton for selecting a cruise phase of flight display configuration and for reconfiguring the cruise phase of flight display configuration; and

[a] the descend quick access pushbutton for selecting a descend phase of flight display configuration and for reconfiguring the descend phase of flight display configuration.

12. (Original) The avionics system of claim 11 wherein the climb phase of flight configuration displays a pilot-selected display configuration for the middle window from the group consisting of a vertical terrain profile, a checklist index, and a flight management system text and for the lower window from the group consisting of a present position, a plan, a datalink, a chart, a traffic, and a maintenance format.

13. (Original) The avionics system of claim 11 wherein the cruise phase of flight configuration displays a pilot-selected display configuration for the middle window from the

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group consisting of a vertical terrain profile, a checklist index, and a flight management system text and for the lower window from the group consisting of a present position, a plan, a datalink, a chart, a traffic, and a maintenance format.

14. (Original) The avionics system of claim 11 wherein the descend phase of flight configuration displays a pilot-selected display configuration for the middle window from the group consisting of a vertical terrain profile, a checklist index, and a flight management system text and for the lower window from the group consisting of a present position, a plan, a datalink, a chart, a traffic, and a maintenance format.

Allowable Subject Matter

3. Claims 1-14 are allowed.

4. The following is an examiner's statement of reasons for allowance in combination with other claim limitations:

Independent claims 1, 5, and 8, when considered as a whole, are allowable over the Prior Art of record. Specifically, the Prior Art of record fails to teach that the avionics system on an aircraft for displaying and reconfiguring difference phrases of flight by selecting the prestored climb, cruise, and descend quick access pushbuttons, and reconfiguring the new climb, cruise, and descend display configurations by pressing and holding the respective quick access pushbuttons for a period of time to store the new phrases of flight configurations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Truc T. Chuong whose telephone number is 571-272-4134. The examiner can normally be reached on M-Th and alternate Fridays 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on (571) 272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Truc T. Chuong

11/13/06


BA HUYNH
PRIMARY EXAMINER